

DATA TRANSCEIVER AND METHOD FOR EQUALIZING THE DATA EYE OF A DIFFERENTIAL INPUT DATA SIGNAL

Abstract

Apparatus and method for counteracting high frequency attenuation of a differential input data signal as the signal is conducted through a data link. A differential input data signal is transmitted from a transmitter to a receiver through a data link. The data eye of the differential input data signal is modified at the transmitter in response to feedback from the receiver where the extent of the data eye of the differential input data signal, after being conducted through the data link, is determined. The feedback to the transmitter, dependent on the determination of the extent of the data eye, controls the data eye at the transmitter and the equalization of the differential input data signal by adapting the differential input data signal to anticipate high frequency attenuation of the differential input data signal in the data link.